

Product datasheet for **SC303960**

NFAT1 (NFATC2) (NM_012340) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NFAT1 (NFATC2) (NM_012340) Human Untagged Clone
Tag:	Tag Free
Symbol:	NFAT1
Synonyms:	NFAT1; NFATP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_012340 edited
ATGAACGCCCCCGAGCGGCAGCCCCAACCCGACGGCGGGGACGCCCCAGGCCACGAGCCT
GGGGGACGCCCAAGACGAGCTTGACTTCTCCATCCTCTTGGACTATGAGTATTTGAAT
CCGAACGAAGAAGAGCCGAATGCACATAAGGTGCGCAGCCACCCTCCGGACCCGCATAC
CCCGATGATGTCTGGACTATGGCCTCAAGCCATACAGCCCCCTTGCTAGTCTCTCTGGC
GAGCCCCCGGCCGATTTCGGAGAGCCGGATAGGGTAGGGCCGAGAAGTTTCTGAGCGCG
GCCAAGCCAGCAGGGGCCCTCGGGCCTGAGCCCTCGGATCGAGATCACTCCGTCCCACGAA
CTGATCCAGGCAGTGGGGCCCCCTCCGCATGAGAGACGCGGGCCTCCTGGTGGAGCAGCCG
CCCCTGGCCGGGGTGGCCGCCAGCCGAGGTTACCCTGCCCGTGCCCGGCTTCGAGGGC
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CTGTGTCCGCAGTTTCAAACATCCCTGCTCATTATCCCCCAGAACCTCGCCAATAATG
TCACCTCGAACCGCCTCGCCGAGGACAGCTGCCTGGGCCGCACTCGCCCGTGCCCGGT
CCGGCCTCCCGCTCCTCATCGCCTGGTGCCAAGCGGAGGCATTTCGTGCGCCGAGGCCTTG
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TCTCACGTGGCACCCAGGACCAGGCTCCCGGCTGGGTACCCCTGTGGCTGGCTCT
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CCTGTGGTTCAGCTCCATGGCTACATGGAAAACAAGCCTCTGGGACTTCAGATTTTCATT
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CAGAACTTTACATCCGAGTCCAAAGTTGTGTTTACTGAGAAGACCACAGATGGACAGCAA
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GAGATCCCTGAATATCGGAACAAGCATATCCGCACACCTGTAAGAGTGAACCTTCTACGTC
ATCAATGGGAAGAGAAAACGAAGTCAGCCTCAGCACTTTACCTACCACCCAGTCCAGCC
ATCAAGACGGAGCCACGGATGAATATGACCCCACTCTGATCTGCAGCCCCACCCATGGA
GGCCTGGGGAGCCAGCCTTACTACCCCAAGCAGCCGATGGTGGCCGAGTCCCCCTCCTGC
CTCGTGGCCACCATGGCTCCCTGCCAGCAGTTCGCGACGGGGCTCTCATCCCTGACGCC
CGCTACCAGCAACAGAACCAGCGGCCGTAATCTACCAGCGGAGCAAGAGCCTGAGCCCC
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CACCGCTCTGTGCTGGTGCACGCGGCTCCCAGGGCCAGAGCTCAGCCCTGCTCCACCCC
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CGCTGCGGAAGCCACCAGGAGTTCAGCACATCATGTAAGTGCAGAGATTTTCGACCAGGC
ACCACCAGACCTGGCCCGCCCCCGTCAAGGTCAAGGTGAGAGGCTGAGCCCGGGTCTCTAC
CCCACAGTCATTACGACGAGAATGCCACGAGCCAAAGAGCCGCAAAAACGGACCCCCG
GTCAGTGACAAAAGGAAGTATTACCTGCGGGGGTGACCATTAACAGGAGCAGAACTTG
GACCAGACCTACTTGATGATGAGCTGATAGACACACACCTTAGCTGGATACAAAACATA
TTATGA
    
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_012340 unedited GTTTAGCATTNNGTATACCACTTCATATAGGGCGGCCGCGCCTTCGCCTTATGAACGCC CCCCGAGCGGCAGCCCCACCCGACGCGGGGACGCCCCAGGCCACGAGCCTGGGGGCAGCCC CCAAGACGAGCTTGACTTCTCCATCCTCTTCGACTATGAGTATTTGAATCCGAACGAAGA AGAGCCGAATGCACATAAGGTCGCCAGCCACCCTCCGGACCCGCATACCCCGATGATGT CCTGGACTATGGCCTCAAGCCATACAGCCCCCTTGCTAGTCTCTCTGGCGAGCCCCCGG CCGATTCGGAGAGCCGGATAGGGTAGGGCCGAGAAGTTTCTGAGCGCGGCCAAGCCAGC AGGGGCTCGGGCTGAGCCCTCGGATCGAGATCACTCCGTCACGAACGATCCAGGC AGTGGGGCCCTCCGCATGAGAGACGCGGGCCTCCTGGTGGAGCAGCCGCCCTGGCCGG GGTGGCCGCCAGCCGAGGTTACCCCTGCCCGTCCCGGCTTCGAGGGCTACCGCGAGCC GCTTTGCTTGAGCCCCGTAGCAGCGGCTCCTCTGCCAGTTCATTTCTGACACCTTCTC CCCCTACACCTCGCCCTGCGTCTCGCCCAATAACGGCGGGCCCGACGACCTGTGTCCGA GTTTCAAACATCCCTGCTCATTATCCCCAGAACCCTGCCAATAATGTCACCTCGAAC CAGCCTCGCCGAGGACAGCTGCCTGGGCGCCACTCGCCCGTCCCGCTCCGGGCTCCCC GCTCTCATCGCCTGGTGCCAGCGGAAGCATTCTGTGCGCCG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' genomic read for NM_012340 unedited CATTGGTNGATGGCAATCCCAGGTCCAGAAAAGCACTGGGGCAGGGTCACAGGATGCCA CCCGGGATCTGTTCAAGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTTTTTTT TTTTTTTTTTTGACATGATAAAATCAGCCTCACTGTAGTCCAGAGTGAGAATTAGAACAT ACCAACTTCCAATCTGCCTAAATGTGACAGCCTCTGCCAAGACTGGCTCACTGAGGCGT CTTGGCTACTGGATGTAACAAAAAATGCAATATCCGTGCCTCCAGTTCTTTGAAGGAA TCAATTCATCCTTGGTTATATCTATGCTGGAAAAGTGGGTGTCTTTGGATAAAGCAT ACAGGAGTTATCTACCAGGATTTAGATTTGGTCCCTTCTGTAATATTAGCCTGAACGTT GAGTTCGTGAACATGAATTCCTTTTCGAATTCATTACAATGCAGGCAGGGTTTTGGTGT CAATTTTTTAAAAATCAAATCACCTACTAAATAGTTATTTGGGGGGAGGATCTAGACA CTTGATGATTCTCAGTGACCAGATCCAGGCTCAGGGCTGAAGTCAGCATAAATCTTGAGC AAGAAAAAGGTGATTCTTCTCCACAAAGCCATTCTTCTCCTGAGATGCCATCTTCTA GAGAGGTGACTAACAGGCTCTGAGTGGGGTTTTATTATATGGTTTTTTCTTGAA TGAGTAACAAATGTTTCAAGAATACATCATTCTTAAAGAAAAAATCAACCTATGT GTAAAAAGAGACACTTAAAAAGATTCTGACCATTTTATAATATAAATCTAATTTCAACG GGG</p>
Restriction Sites:	Please inquire
ACCN:	NM_012340
Insert Size:	6500 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_012340.3 , NP_036472.2
RefSeq Size:	3254 bp
RefSeq ORF:	2766 bp
Locus ID:	4773
UniProt ID:	Q13469
Cytogenetics:	20q13.2
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Axon guidance, B cell receptor signaling pathway, MAPK signaling pathway, Natural killer cell mediated cytotoxicity, T cell receptor signaling pathway, VEGF signaling pathway, Wnt signaling pathway
Gene Summary:	<p>This gene is a member of the nuclear factor of activated T cells (NFAT) family. The product of this gene is a DNA-binding protein with a REL-homology region (RHR) and an NFAT-homology region (NHR). This protein is present in the cytosol and only translocates to the nucleus upon T cell receptor (TCR) stimulation, where it becomes a member of the nuclear factors of activated T cells transcription complex. This complex plays a central role in inducing gene transcription during the immune response. Alternate transcriptional splice variants encoding different isoforms have been characterized. [provided by RefSeq, Apr 2012]</p> <p>Transcript Variant: This variant (1) contains an alternate exon in the 3' end compared to variant 2, that causes a frameshift. The resulting isoform (B) has a shorter and distinct C-terminus compared to isoform C. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>